Balun Panel, 75/120Ω, 2-8Mbit/s, E1 & E2, Shielded
19” 1RU, 48x1.6/5.6 (f) to 2xTELCO 50 Pin (f)

PRODUCT DESCRIPTION

This Balun Panel converts E1 and E2 G.703 signals from unbalanced 75Ω coaxial to balanced 120Ω twisted pair transmissions. A bi-directional device requiring no external power, it allows the user to connect telecommunications equipment with mismatched interfaces. This product offers the following features:-

- coax to twisted pair conversion
- 75Ω to 120Ω impedances
- mounts in standard 19” rack
- zinc sealed, powder coated steel
- genuine AMP Telco connector

- 1.6/6.5 (f) to Telco (AMP CHAMP)
- exceeds G.703 requirements
- > 33dB return loss 0.3 to 3MHz
- < 0.15dB E1 insertion loss
- mount coax or Telco to front
- > 1.25µm of gold plating on pin
- configuration options available
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- teflon coaxial insulators
- genuine AMP Telco connector
- configuration options available
- long life, high reliability

OPERATING CONDITIONS

Matching Impedance: 75 ohm unbalanced coaxial to 120 ohm balanced twisted pair
Bit Rate: 2Mbit/s (E1) and 8Mbit/s (E2) per ITU-T G.703 Line Code
Signal Level: 2.37V nominal peak voltage at the coaxial end per G.703
Working Temperature: -30°C to 75°C

ELECTRICAL SPECIFICATIONS

Insertion Loss: < 0.15dB from 51kHz to 3.072MHz (2Mbit/s, E1) and
< 0.20dB from 211kHz to 12.673MHz (8Mbit/s, E2) in both directions
Return Loss: Exceeds G.703 by > 13dB for 2Mbit/s and > 8dB for 8Mbit/s
Pulse Shape: Exceeds G.703 requirements for 2Mbit/s and 8Mbit/s
Cross Talk: > 65dB from 51kHz to 12.673MHz between channels
Isolation Voltage: < 250V DC

MECHANICAL SPECIFICATIONS

Coaxial Connector: 1.6/6.5 female to IEC 169-13
Body: Brass, Plated Cu/Ni5/Au0.8
Pin: Beryllium Copper, Plated Cu/Ni5/Au1.25
Insulator: Teflon
Mating Cycles: 500min
Telco Connector: Contacts: Copper Alloy, Plated Ni/Au
Moulding: Thermoplastic, Black
Shield: Die Cast, Plated Ni
Panel: Steel, Zinc Sealed and Powder Coated Black
Insulators: Polyethylene, Black

ACCESSORIES

Mounting Brackets: For 21” and 23” racks